

19980515.qrp v01\_n092.qrs.980515

Date: Fri, 15 May 1998 19:03:35 EDT  
From: qrp-l@Lehigh.EDU  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: QRP-L digest 1092

QRP-L Digest 1092

Topics covered in this issue include:

- 1) [10909] Re: Argosy PTO problems  
by nilsbull@juno.com (Nils R Young)
- 2) [10910] Re: RF burns  
by nilsbull@juno.com (Nils R Young)
- 3) [10911] LTA (Spanish) Keys have Arrived  
by "Marshall Emm" <mgemm@mtechnologies.com>
- 4) [10912] Re: Elecraft K2 Pricing Announcement  
by Joe Gervais <vole@primenet.com>
- 5) [10913] Re: Dayton, Critters and Birthdays...  
by Joe Gervais <vole@primenet.com>
- 6) [10914] AR QRP NET  
by Robsparks <Robsparks@aol.com>
- 7) [10915] NorCal pizza gathering in Mountain View, CA  
by "Michael A. Gipe" <mgipe@reliablemeters.com>
- 8) [10916] Core Banks Beacon summary  
by Paul Stroud <aa4xx@ipass.net>
- 9) [10917] Re: Varactors good/bad?  
by WU0L <WU0L@aol.com>
- 10) [10918] Fists Spring Sprint  
by JkHampton <JkHampton@aol.com>
- 11) [10919] Re: LED Keyer Builder's Report  
by Roger Hightower <n7kt@earthlink.net>
- 12) [10920] tube fs or trade  
by marion@montana.com
- 13) [10921] USS LING SS-297 Museum, QRV Saturday 16, 1998 / Armed Forces Day  
by "David, n2zhy" <n2zhy@amsat.org>
- 14) [10922] re: Killer Astroid Coming To A Planet Near You?  
by Bill Todd <bill@willapabay.org>
- 15) [10923] GAP INFO -Thanks  
by kreinbd@ccgate.dl.nec.com (David Kreinberg)
- 16) [10924] Tiny Batteries  
by "Bryan Turner" <turnerw@email.uah.edu>
- 17) [10925] Joel's wire/rope/trees update  
by jdenison@morelr.com (JOEL DENISON)
- 18) [10926] Re: Killer Astroid Coming To A Planet Near You?  
by John Evans - N0HJ <jaevans@codenet.net>
- 19) [10927] 10 Meter Fox Hunt

- by Derek Brown <DBrown@RFMD.com>
- 20) [10928] Dayton and Transceivers  
by beache@juno.com (Edward B Beach)
- 21) [10929] Air Variable Caps  
by Ward Hill <w\_hill@ns.net>
- 22) [10930] 74C04 OR 74HC04 SMT available ???  
by pmk@juno.com (Patrick M Kvitkauskas)
- 23) [10931] Re: Air Variable Caps  
by "Michael A. Gipe" <mgipe@reliablemeters.com>
- 24) [10932] Re: Air Variable Caps  
by Chris Trask <ctrask@primenet.com>
- 25) [10933] Re: Air Variable Caps  
by Ed Loranger <we6w@qsl.net>
- 26) [10934] more strange propagation  
by Glen Leinweber <leinwebe@mcmail.CIS.McMaster.CA>
- 27) [10935] QRP programs for the HP48GX?  
by ke4tsa@juno.com (Michael F Danchi)
- 28) [10936] Re: Air Variable Caps  
by "Michael A. Gipe" <mgipe@reliablemeters.com>
- 29) [10937] Re: OHR-100 Thermal Drift cures?  
by Zack Lau <zlau@arrl.org>
- 30) [10938] Lattin 5 Band Antenna  
by Ed Loranger <we6w@qsl.net>
- 31) [10939] Source for J-FETs  
by Derek Brown <DBrown@RFMD.com>
- 32) [10940] D A Y T O N  
by "Alan Kaul W6RCL" <alan.kaul@worldnet.att.net>
- 33) [10941] Batteries - Size vs. Cost  
by "Bryan Turner" <turnerw@email.uah.edu>
- 34) [10942] Fw: D A Y T O N  
by "Alan Kaul W6RCL" <alan.kaul@worldnet.att.net>
- 35) [10943] Re: D A Y T O N  
by Bill Jones <kd7s@psnw.com>
- 36) [10944] Re: D A Y T O N  
by "Michael A. Gipe" <mgipe@reliablemeters.com>
- 37) [10945] Re: Air Variable Caps  
by "Bob Barry" <rbarry@VNET.IBM.COM>
- 38) [10946] Another of them Hamvention Reports  
by nilsbull@juno.com (Nils R Young)
- 39) [10947] Re: Air Variable Caps  
by David J Adams <adamsclan@netgate.net>
- 40) [10948] Re: 74C04 OR 74HC04 SMT available ???  
by "laura halliday" <marsgal42@hotmail.com>
- 41) [10949] Re: D A Y T O N  
by k7sz@juno.com (Rick Arland)
- 42) [10950] ignore - testing -  
by "Rattray, Bruce" <Rattray@siast.sk.ca>
- 43) [10951] Re: Super CMOS Keyer III?

by mwattcpa@earthlink.net (Marty Watt)  
44) [10952] Re: Batteries - Size vs. Cost  
by Chris Trask <ctrask@primenet.com>

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Date: Thu, 14 May 1998 15:25:47 -0500  
From: nilsbull@juno.com (Nils R Young)  
To: rerobins@email.uncc.edu  
Cc: qrp-1@Lehigh.EDU  
Subject: [10909] Re: Argosy PTO problems  
Message-ID: <19980514.162603.10502.1.nilsbull@juno.com>

Gang,

Richard said that he was getting jumps on his Argosy PTO. I did too, for a while.  
One problem is the back of the PTO (and the front) as a plastic insulated bearing surface in which ride the shafts &c for the tuning process. The back one was broke on mine and I didn't feel like waiting around to fix it. So I made one out of brass and now it works great. Of course, the shaft is now grounded, which for some reason Ten Tec didn't put in the original plans.

But it works fine. Once I got that fixed. And . . . it turns out that I no longer have the hand-capacity effect problem that TT recommends avoiding by only holding the tuning knob at the edges with finger tips.

Too bad I'm ham fisted. Which ain't a pun, mind you. It's just a sociolinguistic phenomenon. Or something.

73  
Nils

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Nils R. Bull Young  
La Estancia de los Guajolotes Sonrientes :: The Grinnin' Turkey Ranch  
WB8IJN &c :: The Tagalong Press :: email to: nilsbull@juno.com  
<http://www.geocities.com/Athens/Olympus/9172>

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Or call Juno at (800) 654-JUNO [654-5866]  
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Date: Thu, 14 May 1998 16:25:51 -0500  
From: nilsbull@juno.com (Nils R Young)  
To: barmstrong@mail.SISNA.com  
Cc: qrp-1@Lehigh.EDU  
Subject: [10910] Re: RF burns  
Message-ID: <19980514.162603.10502.3.nilsbull@juno.com>

Gang,

This is nuts. When I got my first "real" RF burn, it was putting the thumb & forefinger of my right hand on the parasitic choke in an ol' Eico 753 while holding the keying line in the other hand. Tossed out of gear and coasting to a stop. Took a month or more to heal.

Also learned that a small crack in the case of an antenna tuner lets out this kinda heat stuff that don't feel good. Used a DX100 to learn that one. Strange.

Then I burned my hands putting a vertical antenna up in the back yard of the house we rented when Cindy & I first got married. Zzzt! Whatzzat?

But then the real RF Burns story: About 15 or so years ago, I was sitting out in the shack (when it was better 'n it is now), listening to some late night radio stuff and came across a station called "Radio Clandestine." They had some weird adverts and some other stuff and played some rock & roll and then this guy came on and gave a station ID. "This is your host, R. F. Burns, inviting you to listen in again later for more from Radio Clandestine."

I wrote it down in the SWL log book and made a note that the announcer was somebody named R. F. Burns.

About two days later I looked at the log book and realized that it was joke.

Slow on the uptake. Must be a neurological condition. Like the sodium pump or the chicken sandwich or the endorphens and the dendrites having a dispute over who has the best new-cue-lurr weapons or something. Yeah . . . That's it. . . .

Gotcher ditchin-airies? I'm gonna be at Dayton, stoked and ready to rumbbbbblblblblblblllllle!!!!!! (Too many bean burritos, I think)

Yeeeehah!

Nils

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Nils R. Bull Young  
La Estancia de los Guajolotes Sonrientes :: The Grinnin' Turkey Ranch  
WB8IJN &c :: The Tagalong Press :: email to: nilsbull@juno.com  
<http://www.geocities.com/Athens/Olympus/9172>

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Or call Juno at (800) 654-JUNO [654-5866]

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Date: Thu, 14 May 1998 15:39:24 -0600  
From: "Marshall Emm" <mgemm@mtechnologies.com>  
To: qrp-1@Lehigh.EDU, cqc@mtechnologies.com,  
Milestone.Technologies.Announcement.List@edison.chisp.net  
Subject: [10911] LTA (Spanish) Keys have Arrived  
Message-ID: <199805142138.PAA24535@edison.chisp.net>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT

Here's something being announced AWAY from Dayton [g].

#### Llaves Telegraphicas Artesanas (LTA) Keys

We now have limited stocks of some of the keys from LTA ("Telegraph Key Craftsmen") in the Balearic Islands of Spain. Prices have turned out to be about 10% higher than we expected due to Customs and documentation costs, but we believe these are still very reasonable prices for keys that are individual works of art.

Images and prices can be found on the web site at  
<http://www.mtechnologies.com/lta>. Summary info follows.

Those listed here are available now in limited quantities. Shipping and handling will be \$5 for Priority Mail or \$15 for FedEx Second Day Air-- per order.

For this shipment, we asked LTA to eliminate the lacquer, as there are visible flaws in the lacquer application on the samples we previewed (visible in some of the close-ups on the web page). Lacquered versions may be available later. For reference, the single paddle GMM is shown in the non-lacquered finish; all other images are from the lacquered samples.

The keys are on rosewood bases (we think-- LTA calls it "Noble Wood",

or "abebay" --anybody got a fix on that one?), and are assembled by hand. The straight key knobs are teak, and the finger pieces for the paddles and bug are olive wood.

The mechanical parts are solid brass, highly polished and lacquered. There are minor flaws in the brass, and in the case of the lacquered versions the lacquer is applied by hand with a brush, so each key shows signs of individual craftsmanship and is unique.

As well as the polished brass versions shown, some keys are available in gold plate, indicated with the letter "O" following the model number. Again, please note that current stocks are NOT lacquered (and gold plate versions are not lacquered in any case).

We hope to have all models of the LTA keys available for sale soon, but in the mean time do feel free to visit LTA's web site at <http://www.arrakis.es/~llatelar>.

Model CRD combo (CRI paddle and GMV key). \$118.95  
Model GMP mini straight key \$48.95. GMP0 (gold plate) \$58.95.  
Model GMV straight key \$68.95.  
Model CRI dual paddle \$74.95 Model CRI0 (gold plate) \$88.95.  
Model GMS semi-auto "bug" \$108.95.  
Model GMM single paddle \$68.95.

800-238-8205 for credit card orders  
or call 303-752-3382 for more information  
or order on line at <http://www.mtechnologies.com>

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Date: Thu, 14 May 1998 13:00:25 -0700 (MST)  
From: Joe Gervais <vole@primerenet.com>  
To: qrp-l@Lehigh.EDU  
Subject: [10912] Re: Elecraft K2 Pricing Announcement  
Message-ID: <199805142000.NAA29011@usr07.primenet.com>

The Elecraft Gang wrote:

>  
> K2 (CW, 80-10m, 10W) \$549.00  
> SSB Option 79.00  
> [ ... ]  
> If you are interested but have not signed up yet, please send e-mail to

> radios@elecraft.com. The SUBJECT of your e-mail should be one of the  
> following:

Hey, do you guys have a "Desperately Saving \$\$\$ But Won't  
Have Enough Until Christmas" category? :)

Gimme gimme gimme!

\*sigh\* Guess I'll have to live vicariously through the  
sigs of others 'til then....

Any info on wheter the SSB option will give me a full  
10w \*PEP\* out for my squeaky voice?

Ya see what I'm hoping to do is get the K2 for Christmas,  
and the SSB option for my birthday soon after. Just doing  
my part to keep the economy expanding. :-)

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

"And that, my Liege, is how we know the Earth  
to be banana-shaped." -- Monty Python and the Holy Grail

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Date: Thu, 14 May 1998 13:09:28 -0700 (MST)  
From: Joe Gervais <vole@primenet.com>  
To: qrp-1@Lehigh.EDU  
Cc: ku7y@dri.edu  
Subject: [10913] Re: Dayton, Critters and Birthdays...  
Message-ID: <199805142009.NAA29887@usr07.primenet.com>

Howdy,

Ron (KU7Y) wrote:

>  
> The Washoe County Commissioners were meeting tonight to make a new  
> law that would restrict the number of critters (horses, cows, chickens,  
> rabbits, pigs, sheep and etc.) you can have  
> [ ... ]  
> It's just like QRP! The little guys up against the giants, but we won!!!

Congrats! Though I think we're all beginning to  
wonder just exactly what you're doing with all

those sheep.... :-)

Get enough of 'em together in a dry wind storm  
and they might make nice big self-mobile capacitors.  
Have to have 'em standing on an insulator, of  
course.

Sheep-powered QRP... If that ain't one for the  
record books, I don't know what else could be. \*8-)

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

"'Fraid nobody around here, understands my potato;  
Think I'm only a Spudboy, looking for a real tomato." -DEVO

-----  
Date: Thu, 14 May 1998 17:56:59 EDT  
From: Robsparks <Robsparks@aol.com>  
To: qrp-1@Lehigh.EDU  
Subject: [10914] AR QRP NET  
Message-ID: <ca03219b.355b68ad@aol.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit

Hello Folks,

Thanks to any qrp'ers who tried to check into the AR QRP net on Wednesday  
night. The QRN was terrible down here in Louisiana, and apparently was not  
materially better elsewhere. If you called me, please know that I listened  
intently, but was unable to hear much other than noise. But it was fun! And  
that is what this hobby is all about.

Net results (no pun) 1 check in:

1) KA5OAI Sam, in Texas running an Atlas 215 at 5w into an 80m loop up 13 ft.

Note: I had never checked into a net before this one a few weeks ago, let  
alone run a net. It is a lot of fun! It does not consume much time (usually  
15-30 minutes: about the length of one QSO!) and is an opportunity to do  
something a little different. Consider listening in each Wednesday at 7:00  
central time at about 7.042.



72

Bob AB5ZD

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Date: Thu, 14 May 1998 15:18:27 -0700  
From: "Michael A. Gipe" <mgipe@reliablemeters.com>  
To: "QRP-L list" <qrp-l@Lehigh.EDU>  
Subject: [10915] NorCal pizza gathering in Mountain View, CA  
Message-ID: <0ad701bd7f86\$387e7a00\$309f5ecf@double\_trouble.reliablemeters.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Don't forget! Pizza night Friday. See the new NorCal project.  
This is the last reminder.

So far, the confirmed attendee list is:

Paul AK1P  
Ori AC6AN (better late than never)  
Dave N9UXU  
Bob N6WG  
Dave W6EMD  
Stan K4DRD  
Bob W3CD  
Andreas KF6NEB  
Mike K1MG  
Jessica no call yet

\*\*\*\*\*

Yes, it's Pizza Time! This Friday at the usual spot, 6:00 PM.

All are invited for a QRP get together to have some Pizza, have fun  
and  
see the new NorCal project. We will meet at the Round Table Pizza in  
the  
shopping center behind the Burger King at the corner of Grant Road  
(237) and  
El Camino Real, just north of highway 85, in Mountain View, CA.  
If you are coming from 101, when  
you reach El Camino Real, turn left and take the first exit to  
your right. It is a drive way about

203 yards, 2 feet 7 1/2 inches from the corner. Look straight ahead and you will see the Round Table Pizza. If you are coming from 85, take the El Camino exit north, and turn left into the shopping center.

Mike K1MG

-----  
Date: Thu, 14 May 1998 19:09:02 -0400  
From: Paul Stroud <aa4xx@ipass.net>  
To: klqrp <klqrp@waterw.com>  
Cc: QRP-L <QRP-L@Lehigh.EDU>  
Subject: [10916] Core Banks Beacon summary  
Message-ID: <355B798E.C1166ACE@ipass.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hi Gang,

Several weeks ago, the Knightlites traveled to Core Banks (North Carolina Outer Banks) on a QRP Expedition. Our esteemed QSL manager and scribe, AB4PP, is preparing a report of the general activities, including the much anticipated results of the "Saturday night QRO snoring championship." JP, we look forward to that report!  
:-)

The purpose of this posting is to share the results of the Core Banks HF beacon project, which was run by Sir Kite Meister Don, W3RDF. I wish you all could have seen the beautiful kites in action. We were blessed with beautiful weather and good winds throughout most of the weekend...

Special Recognition was awarded to Sir Joel Malman, WA1QVM, for copying 5 beacons. Honorable Recognition was awarded to Sir Dave Humphries, VE3DN, for copying 8 beacons. Congratulations, Gentlemen!

There were three types of beacons:

- 1) Known Frequency, where the beacon frequency and time were posted in advance
- 2) Haystack, where the frequency window and time were posted in advance

3) Wildcard, where no prior information on time or frequency was provided

W3RDF's schedule provided for ground based and kite supported beacons. Two kites were flying throughout most of the weekend. Following is a summary of the operation, provided by Herr Kitemeister:

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Notes from a Fun weekend at Core Banks Island, NC 3/27/98 - 3/29/98,

Arrived on the island about 12:30PM (local time)

BEACON SCHEDULE      Date: 27 March, 1998

SCHEDULE: 19:00Z - 24:00Z (Known Frequency) 7029 Khz, ground

ACTUAL: 19:15Z - 24:00Z Frequency 7029 KHZ, ground

Notes: This known frequency beacon used the ground mounted 40 meter vertical and the NN1G transceiver set at 500 mW. We lost 15 minutes due all the activity associated with setting up antennas, unpacking and organizing equipment, etc. Some drift occurred due to the changing temperatures from direct sunlight.

SCHEDULE: 19:00Z - 24:00Z (Known Frequency) 10124 Khz, ground

ACTUAL: 19:45Z - 22:40Z Frequency 10124 Khz, ground

Notes: Late start due to the initial start up activity, tuning antennas, unpacking and organizing gear, etc. The beacon was terminated early because it caused QRM with the 30 meter station in close proximity.

SCHEDULE: 21:00Z - 23:00Z (Known Frequency) 14049 Khz, kite

ACTUAL: 20:55Z - 21:30Z Frequency 14049 Khz, kite

Notes: Launched 7 sq. ft. parasail kite earlier than planned and fired beacon 5 minutes ahead of schedule. Beautiful sight high in the sky with beacon attached as sloping V about 50 ft. below the kite. At 21:30 the connecting ring between the kite and line failed and the kite blew off down the beach dropping and damaging the messenger and transmitter. (cases heavily damaged and IC's knocked loose from sockets). This is a two band transmitter scheduled for operation on 20 and 30 meters. Later in the evening we repaired the messenger and the transmitter, although it wouldn't oscillate on 20 meters. Suspected a broken crystal.

WILDCARD BEACONS:

None fired.

Date: 28 March, 1998

SCHEDULE: 00:00Z - 03:00Z (Haystack) 7000 Khz to 7040 Khz, ground  
ACTUAL: 00:10Z - 03:00Z Frequency 7016 Khz

SCHEDULE: 00:00Z - 02:00Z (Known Frequency) 10118 Khz, kite  
ACTUAL: 01:20Z - 03:00Z Frequency 3505 Khz

Notes: This beacon was cancelled to avoid causing QRM for ground station; however, an unscheduled beacon (Haystack) was fired on 3505 Khz in place of the 30 meter (Known Frequency) beacon.

SCHEDULE: 03:00Z - 12:00Z (Haystack) 3501 Khz to 3600 Khz, ground  
ACTUAL: 03:10Z - 12:00Z(?) Frequency 3521 Khz

Notes: This beacon used a 150 ft. kite supported wire for the antenna. Sometime during the night the wind died and the wire hit the ground.

SCHEDULE: 03:00Z - 12:00Z (Haystack) 10100 Khz to 10150 Khz, ground  
ACTUAL: 03:10Z - 12:00Z Frequency 10115.6 Khz

SCHEDULE: 13:00Z - 21:00Z (Haystack) 7100 Khz to 7130 Khz, ground  
ACTUAL: 12:45Z - 16:20Z Frequency 7106 Khz  
16:20Z - 18:07Z Frequency 7113 Khz  
18:07Z - 21:00Z Frequency 7121 Khz

SCHEDULE: 13:00Z - 21:00Z (Haystack) 10100 Khz to 10130 Khz, ground  
ACTUAL: 12:45Z - 17:15Z Frequency 10130 Khz  
17:15Z - 18:45Z Frequency 10119 Khz

Notes: The 30 meter beacon was discontinued in order to use the same transmitter on 20 meters. This was necessary because of the damaged sustained when the platform fell from the kite.

SCHEDULE: 13:30Z - 16:30Z (Known Frequency) 21063 Khz, kite  
ACTUAL: 13:55Z - 16:30Z Frequency 21062.5Khz

SCHEDULE: 13:30Z - 16:30Z (Known Frequency) 7030 Khz, kite  
ACTUAL: 14:50Z - 16:00Z Frequency 7030 Khz

Note: Winds died down making it difficult to maintain flight. Used ground based kite antenna.

SCHEDULE: 17:30Z - 21:00Z (Known Frequency) 28023 Khz, kite  
ACTUAL: 16:50Z - 21:00Z Frequency 28023 Khz

SCHEDULE: 17:30Z - 21:00Z (Known Frequency) 14049 Khz, kite

ACTUAL: 18:55Z - 21:00Z Frequency 14049 Khz

SCHEDULE: 21:30Z - 24:00Z (Known Frequency) 7112 Khz, ground  
ACTUAL: 21:30Z - 22:20Z Frequency 7112 Khz

SCHEDULE: 22:00Z - 24:00Z (Known Frequency) 21062 Khz, kite  
ACTUAL: 22:00Z - 23:00Z Frequency 21063 Khz

SCHEDULE: 22:00Z - 24:00Z (Frequency) 10119 Khz, kite  
ACTUAL: Cancelled to avoid QRM to land based stations

Notes: Cancellation made room on kite line for Wildcard beacons.

#### WILDCARD BEACONS:

18:30Z - 19:10Z Frequency 10105 Khz, kite  
19:25Z - 21:00Z Frequency 7015 Khz, kite  
22:20Z - 23:00Z Frequency 3686.4 Khz, kite

Notes: 80 meter beacon caused the kite to become unstable. Must develop shorter antenna. The beacon was up and down a few times during this period.

Date: 29 March, 1998

SCHEDULE: 00:00Z - 02:00Z (Fixed Frequency) 21062 Khz, kite  
ACTUAL: Cancelled due to wind conditions.

SCHEDULE: 00:00Z - 02:00Z (Fixed Frequency) 10119 Khz, kite  
ACTUAL: Cancelled due to wind conditions and to avoid QRM with land based stations.

SCHEDULE: 00:00Z - 12:00Z Haystack 7000 Khz to 7030 Khz, ground  
ACTUAL: 00:00Z - 12:05Z Frequency 7025 Khz.

SCHEDULE: 00:00Z - 04:00Z Haystack 14045 Khz to 14065 Khz, ground  
ACTUAL: Cancelled because of broken transmitter.

SCHEDULE: 04:00Z - 12:00Z Haystack 3501 Khz to 3750 Khz, ground  
ACTUAL: 03:00Z - 12:00Z Frequency 3686 Khz

Note: Message changed to bid fairwell to Night Kite SMiTe Flights. Also, kite went down sometime during the night (unknown) and beacon messenger battery voltage dropped to a level where the messenger failed to operate properly.

SCHEDULE: 13:00Z - 15:00Z (Fixed Frequency) 28023 Khz, kite  
ACTUAL: 13:00z - 15:00Z Frequency 28023 Khz

## WILDCARD BEACONS:

12:05Z - 15:00Z Frequency 7035 (actually on ground vert)

12:25Z - 13:30Z Frequency 10115 (actually on ground vert)

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## Core Banks Beacon Reports Sorted on Frequency, Date, Time

Date	Time	Freq	Call	RST	Mode	Type	State
3/29/98	0300	3686.4	K3TKS	339	Kite	Haystack	MD
3/29/98	0437	3686.4	WA1QVM	229	Kite	Haystack	MA
3/28/98	2458	7015.6	K4NK	549	Ground	Haystack	SC
3/28/98	2442	7015.9	WA70BH	589	Ground	Haystack	FL
3/28/98	2415	7016	VE3DN	569	Ground	Haystack	ON
3/28/98	2036	7018.7	AA4VV	579	Kite	Wildcard	NC
3/28/98	2015	7019	N4QA	559	Kite	Wildcard	VA
3/27/98	2320	7028.9	WA1QVM	579	Ground	Known Freq	MA
3/27/98	2321	7029	KJ5MG	559	Ground	Known Freq	OK
3/27/98	1921	7031	W3TMO	449	Ground	Known Freq	SC
3/27/98	2032	7031.4	WB3AAI	559	Ground	Known Freq	PA
3/27/98	1925	7032	VE3DN	459	Ground	Known Freq	ON
3/27/98	1930	7032	WA9WIG	449	Ground	Known Freq	SC
3/28/98	1456	7033	VE3DN	339	Ground	Known Freq	ON
3/28/98	1345	7106	KK4RF	579	Ground	Haystack	VA
3/28/98	1310	7106.3	N1QQV	549	Ground	Haystack	CT
3/28/98	1540	7106.6	W3TMO	549	Ground	Haystack	SC
3/28/98	1317	7107	K4NK	449	Ground	Haystack	SC
3/28/98	1420	7107	VE3DN	569	Ground	Haystack	ON
3/28/98	2127	7112	WA1QVM	569	Ground	Known Freq	MA
3/28/98	2140	7112	W3TMO	569	Ground	Known Freq	SC
3/28/98	2140	7112	AB4LG	449	Ground	Known Freq	SC
3/28/98	0400	10115.6	WA0VGD	559	Ground	Haystack	IA
3/28/98	1200	10115.6	W2JDH	539	Ground	Haystack	FL
3/28/98	0550	10115.9	VE5HQ	229	Ground	Haystack	SK
3/28/98	1824	10118	VE3DN	349	Ground	Haystack	ON
3/27/98	2009	10123.4	WB3AAI	559	Ground	Known Freq	PA
3/27/98	2034	10123.7	WA1QVM	579	Ground	Known Freq	MA
3/27/98	1945	10124	VE3DN	569	Ground	Haystack	ON
3/28/98	1509	10129.9	AB0AE	339	Ground	Haystack	KS
3/28/98	1308	10130	KU4OZ	579	Ground	Haystack	GA
3/28/98	1317	10130	K4NK	569	Ground	Haystack	SC
3/28/98	1415	10130	VE3DN	559	Ground	Haystack	ON
3/28/98	1406	10130.4	WA1QVM	579	Ground	Haystack	MA
3/28/98	1324	10130.7	N1QQV	579	Ground	Haystack	CT
3/27/98	2100	14049	KJ5MG	569	Kite	Known Freq	OK
3/28/98	1907	14049	VE3DN	579	Kite	Known Freq	ON

3/28/98 1911 14049 AB0AE 599 Kite Known Freq KS  
3/28/98 1430 21063.5 VE5HQ 559 Kite Known Freq SK

Beaconfest '98, from beautiful Myrtle Beach, SC will be coming your way this Fall. Stay tuned for more details. Special thanks to Jerry Flanders, W4UK, for printing the beautiful beacon certificates on behalf of the KnightLites.

72,

Paul Stroud AA4XX nr Raleigh, NC

-----  
Date: Thu, 14 May 1998 20:20:09 EDT  
From: WU0L <WU0L@aol.com>  
To: rmccarty@earthlink.net, qrp-l@Lehigh.EDU  
Subject: [10917] Re: Varactors good/bad?  
Message-ID: <2e477cc3.355b8a3a@aol.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit

My experience using BB104s, as far as drift is concerned, has been all bad. They may be cheap from "Dan's", but they are not a bargain. Throw them all out and you will be a lot happier. Use the "MV" series.

73 WU0L Mark

-----  
Date: Thu, 14 May 1998 20:27:18 EDT  
From: JkHampton <JkHampton@aol.com>  
To: qrp-l@Lehigh.EDU  
Subject: [10918] Fists Spring Sprint  
Message-ID: <7110920a.355b8be7@aol.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit

Hello to All,

The Fists Spring Sprint is behind us and although condx were not the best, it looks like a lot of people had a great time. I have already received quite a few logs. Several on QRP-L have responded and given the Sprint a "thumbs up". Thanks for the feed back and Fists CW Club is glad that you enjoyed the contest. We hope you will be back agn for the Fall Sprint.

If you have sent me a log via e-mail, I may have lost it due to a computer problem before I could print it or save it. I have a nagging feeling that one is missing and it may be yours. Everyone is important and I want to be sure that your results are included. The other evening, I kept getting bumped off because of "lost carrier". This happened several times and I just gave up for the night. Now, I have the feeling that I am missing something. It may be your Sprint results.

I hate to do this but, if you sent me an e-mail containing a Fists Spring Sprint log, please resend it, just to be sure that I have it.

If you have a log, send it on to me, it doesn't matter what your score is, it is all for fun anyway. Gud CW/QRP to all.

Thanks  
72  
Tom AC5JH

-----  
Date: Thu, 14 May 1998 19:01:37 +0000  
From: Roger Hightower <n7kt@earthlink.net>  
To: kemkerj@xyzzzy.net  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [10919] Re: LED Keyer Builder's Report  
Message-ID: <355B3F91.F3486B1@earthlink.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

John wrote:

> 1) How do you tell which is terminal A and which is terminal B on the  
> shaft encoder? I guessed, since it's not marked.

It's on the mechanical drawing...I'm assuming that you look from the top of the encoder.

Also, for a knob, try a Mouser No. 550-10501 collet knob for a 1/8" shaft, at \$1.18 ea. The insert is either a 550-10001 (no marking) at \$.17 ea, or a 550-10011 (with index mark) at .29 ea.

Rather than the bulk and weight of AA cells, I have a 3V lithium button cell that I'll use. Much smaller and lighter, and I can put the whole thing in a smaller case.

This is a cool keyer...if you didn't order one, you missed out. Easy to



build, and it works great!

--

72/73, de Roger, N7KT - QRP-L #62 - Mesa, AZ

"The problem with doing nothing is not knowing when you're finished"  
(Nelson DeMille)

-----  
Date: Thu, 14 May 1998 21:32:47 -0600 (MDT)  
From: marion@montana.com  
To: qrp-l@Lehigh.EDU  
Subject: [10920] tube fs or trade  
Message-ID: <199805150332.VAA29863@paw.montana.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

For sale or trade for QRP gear, one 4-400A tube, new. Sells for  
\$229.00 at RF parts. Roy AB7CE

-----  
Date: Fri, 15 May 1998 01:59:08 -0400  
From: "David, n2zhy" <n2zhy@amsat.org>  
To: njqrp@njqrp.org, qrp-l@Lehigh.EDU, dsrc@nerc2.nerc.com  
Subject: [10921] USS LING SS-297 Museum, QRV Saturday 16, 1998 / Armed Forces Day  
Message-ID: <355BD9AC.461D@amsat.org>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

USS Ling SS-297 will be QRV Saturday 16, 1998 in Central New Jersey.

The Submarine Ling is docked at The New Jersey Naval Museum on the  
Hackensack River, near New York City Harbor and the entrance to the  
Atlantic Ocean. She is a fine example of a WW2 class boat. A guided  
tour is available in person or on the web. Check out these web pages:

[www.njnm.com/subtour/](http://www.njnm.com/subtour/)  
[www.njnm.com/frames/htm](http://www.njnm.com/frames/htm)  
<http://www.subnet.com/FLEET/ss297.htm>

Who

N2zhy, David

Kc2aio, Bob

We will call CQ Ling and use our own calls; n2zhy and kc2aio.

Time

Mid day. We have access to the boat between 1400 and 2000 UTC.

Rigs

MFJ 20 qrp 5 watts

Norcal 40a 2 watts

Alinco dx70th 5 watts

Frequencies

14.060 +/- a couple

7.040 " " "

10.106 " " "

28.060 " " "

28.400 ssb

3.686 +/- a couple Plus the qrp calling frequency, what ever that is  
and maybe some ssb in the General portion of  
the band.

Bob, kc2aio, will stay on 20 meters all day.

David,n2zhy will operate 40 meters until around Noon. After Noon, he  
will float between 30, 10 and 80 as propagation and battery allows.

Antennas

Mag mounts of course!

Maybe the sub's deck antennas and maybe a random wire.

Certificates

None

Not this time. This is just a recon mission, a fun run.

This is a low key event and we will favor the slow and cw challenged  
operators. Sandwiches and cold ones take precedence over qro callers!  
Bob and I are just developing our operating skills so please be patient.

Wish us luck and report all U-Boat and unidentified aircraft sightings!

All sightings are worth 100 Fizbin bonus points toward your ITTF  
Certificate!!

All qrp contacts are worth 50 Fizbin bonus points toward your ITTF  
Certificate!!

72 and Best Fishes

David,n2zhy

Bob, kc2aio

-----  
Date: Thu, 14 May 1998 23:45:01 -0700  
From: Bill Todd <bill@willapabay.org>  
To: wb5rue@ccnmail.com  
Cc: qrp-1@Lehigh.EDU  
Subject: [10922] re: Killer Astroid Coming To A Planet Near You?  
Message-ID: <1.5.4.32.19980515064501.0072e6b8@willapabay.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

To Continue the thred while just about everyone and their uncle are in Dayton...

>what sort of problems or enhancements would it provide for us ham-types?  
>Just wondering. Any and all comments are appreciated!

I have heard of EME (Earth Moon Eatrh) or "Moon Bounce"...  
maybe we could do some EAE hamming.  
The only problem with that whole activity is that you might have  
a problem getting a QSL back in time before the asteroid smashes  
in to dear old Earth (ha).

CUL, Bill-N7MFB  
(one of the few who will not be in Dayton...sigh)

--  
<http://www.willapabay.com/~bill>  
ICQ me at #8926298

-----  
Date: Fri, 15 May 1998 07:49:18 -0500  
From: kreinbd@ccgate.dl.nec.com (David Kreinberg)  
To: qrp-1@Lehigh.EDU  
Subject: [10923] GAP INFO -Thanks  
Message-ID: <0007E078.4159@ccgate.dl.nec.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: 7bit  
Content-Description: cc:Mail note part

Many thanks to all who sent along the info on the GAP  
antenna. I think I have a lot of good data to sift

through for my decision.

Have a great weekend - at Dayton or where ever you will be!.

73 de Dave, NR3E  
QRP-L #25  
nr Dallas, TX

-----  
Date: Fri, 15 May 1998 08:03:11 +0000  
From: "Bryan Turner" <turnerw@email.uah.edu>  
To: qrp-l@Lehigh.EDU  
Subject: [10924] Tiny Batteries  
Message-ID: <9805151302.AA25108@uahis1.uah.edu>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: 7BIT

NN6CW made the great suggestion of opening 9V batteries to get the tiny 1.5V cells, but the battery companies have now introduced the AAAA cell. The AAAA is the same cell used in 9V batteries. They were quite obscure, but Radio Shack has started stocking them. Just be prepared to have the clerk ask you, "Don't you mean AAA cells?"  
73 Bryan W8LN

-----  
Date: Fri, 15 May 1998 08:07:52 -0500 (CDT)  
From: jdenison@morelr.com (JOEL DENISON)  
To: qrp-l@Lehigh.EDU  
Subject: [10925] Joel's wire/rope/trees update  
Message-ID: <199805151307.IAA21373@m20.morelr.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Hi gang:

well. I put the twenty meter four element quad back up... facing louisiana... I took down the combination yagi (40/20) and put two elements back up on forty... driven, director... got it about another ten feet higher... me and a k3 or w3 worked 4w to 4w ssb two way 599 last nite... on forty...

I got some info on a jk8 antenna and am tryingto decide what I'm gonna do about it... I really don't have much room here... can't even stretch out a forty meter dipole without the ends in the trees... it's

really a challenge...

by lowering the 40/20 yagis and putting only the forty back up...  
closer to the house I may be able to hang a jk8 on twenty in front of and  
below the forty meter yagi... Then I can take down the quad and put up a jk8  
for fifteen... maybe... it'll be a squeeze... but maybe I can play the  
angles on the supporting rope...

All this kinda keeps my mind off the pain of the upcoming  
bypass...geeeze... "what a stroke of fortune for the doc"... :-)

bye now

Ya'll be pretty

joel in maine north of dixie getting out like a bandit... :-)

God Bless

Joel

WA5CVM

Joel Denison

PO BOX 542

Strong, Maine 04983

jdenison@morelr.com

Gentlemen don't Cry, They QSY :-)

Gentle Lady (RC Sail Plane)(049 engine - start)

3 element yagi on 40mtr/20mtr

QRP ARCI 4066 NEW ENGLAND QRP 476 QRP-L 765

AK/QRP 109

-----  
Date: Fri, 15 May 1998 07:27:03 -0600

From: John Evans - N0HJ <jaevans@codenet.net>

To: qrp-l@Lehigh.EDU

Subject: [10926] Re: Killer Astroid Coming To A Planet Near You?

Message-ID: <355C42A7.7AE9D7D6@codenet.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Bill Todd wrote:

>

> To Continue the thred while just about everyone and their uncle are in Dayton...

> The only problem with that whole activity is that you might have

> a problem getting a QSL back in time before the asteroid smashes

> in to dear old Earth (ha).

Shucks, and I was hoping to get a WAF (Worked All Fragments) Award !

john - n0hj

-----  
John A. Evans

Office: (719) 528-1800 x164

Chief Systems Administrator

Titan Software Systems

Fax: (719) 528-1888 1115 Elkton Drive, Suite 200  
email: jaevans@cos.cst.titan.com Colorado Springs, CO 80907-3535

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Norcal #262 QRP-L #219 QRP-ARCI #8303 NE-QRP #213 CQC #045  
CQrp #15 NJ-QRP #50 AK-QRP #52 NW-QRP #454 FISTS #3184  
Personal Web Page: <http://www.geocities.com/capecanaveral/9773/>

---

---

Date: Thu, 14 May 1998 13:29:36 -0400  
From: Derek Brown <DBrown@RFMD.com>  
To: "'w5usj@webwide.net'" <w5usj@webwide.net>  
Cc: "'QRP-L'" <qrp-l@Lehigh.EDU>  
Subject: [10927] 10 Meter Fox Hunt  
Message-ID:  
<c=US%a=\_%p=RF\_Micro\_Devices%l=PACHACUTEC-980514172936Z-23403@proxy1.rfmd.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

Chuck,

I've been calling CQ on 28.060 Mhz as well. I'm not sure when the band's been open but if we ALL congregate at that QRP frequency, we're sure to find out - THEN, we can start spreading out - lotsa bandwidth there. A couple of things for sure - QRM and BCI haven't been a problem there.

My modified Sierra puts out just over 3 watts on 10 M - I'm quite eager for some QSO's on that band. Hang in there!

72 de Derek Brown, WF4I  
Greensboro, NC  
dbrown@rfmd.com

---

Date: Fri, 15 May 1998 10:17:47 EDT  
From: beache@juno.com (Edward B Beach)  
To: qrp-l@Lehigh.EDU  
Subject: [10928] Dayton and Transceivers  
Message-ID: <19980515.101706.10919.0.beache@juno.com>

Hi, guys and gals!

I know that most of you at Dayton won't have access to the qrp-l, but perhaps some of you may, so here goes.

I just got a copy of the Amateur Radio Trader flyer, and found an interesting ad from a company called ARW. They list a web site [<http://www.radiowise.com>] and have a booth at Dayton [332-333]. What I found to be of interest was the fact that they rep and sell SG2020 as well as a new rig, the Patcomm 9000 which looks very interesting. The web site says they will have a sample of the Patcomm, but +NOT+ the SG2020! Interesting.

Anyway, if anyone could get a look at the Patcomm 9000 [ appears to be a \$600 class box with all the bells and whistles 5W/40W operation], we all might appreciate a first-hand report.

Vy 72/73 de Ted Beach - K4MKX

---

You don't need to buy Internet access to use free Internet e-mail.  
Get completely free e-mail from Juno at <http://www.juno.com>  
Or call Juno at (800) 654-JUNO [654-5866]

---

Date: Fri, 15 May 1998 07:55:07 -0800  
From: Ward Hill <[w\\_hill@ns.net](mailto:w_hill@ns.net)>  
To: [qrp-l@Lehigh.EDU](mailto:qrp-l@Lehigh.EDU)  
Subject: [10929] Air Variable Caps  
Message-ID: <[103130300b182156b642d@\[207.159.15.108\]](mailto:103130300b182156b642d@[207.159.15.108])>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Does anyone have a source for air variable caps such as needed for antenna tuners (QRP levels)? Looking around here in the Sacramento area proves to be a lost cause.

72,

Ward Hill, WA6FUH  
Engineer at KOVR, Channel 13 (CBS), Sacramento, CA  
<http://www.kovr.com/index.htm>  
"Where excuses stop, achievements begin"  
Life Member ARRL NorCal #2660 10-10 #27139 QRP-L #1117 AK/QRP #249  
All QRP, All home built/home brew equipment  
[w\\_hill@ns.net](mailto:w_hill@ns.net)

WA6FUH@KM6PX.#NCA.CA.USA.NOAM

-----  
Date: Fri, 15 May 1998 15:14:46 +0100  
From: pmk@juno.com (Patrick M Kvitkauskas)  
To: qrp-1@Lehigh.EDU  
Subject: [10930] 74C04 OR 74HC04 SMT available ???  
Message-ID: <19980515.151450.12262.0.pmk@juno.com>

Does anyone know if there are some old CMOS numbers that are available in surface mount ??

i am looking for a CMOS hex inverter. Have had good luck with the 74C04 or is there a cross reference for it as well ???

72/73 de Patrick KD40BQ

AR

-----  
You don't need to buy Internet access to use free Internet e-mail.  
Get completely free e-mail from Juno at <http://www.juno.com>  
Or call Juno at (800) 654-JUNO [654-5866]

-----  
Date: Fri, 15 May 1998 08:19:45 -0700  
From: "Michael A. Gipe" <mgipe@reliablemeters.com>  
To: <w\_hill@ns.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [10931] Re: Air Variable Caps  
Message-ID: <0b9801bd8014\$e4928230\$309f5ecf@double\_trouble.reliablemeters.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Best option would be the monthly Livermore ham flea market.

Mike K1MG

-----



Date: Fri, 15 May 1998 08:36:30 -0700 (MST)  
From: Chris Trask <ctrask@primenet.com>  
To: Ward Hill <w\_hill@ns.net>  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [10932] Re: Air Variable Caps  
Message-ID: <Pine.BSI.3.96.980515083422.16106A-1000000@usr05.primenet.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 15 May 1998, Ward Hill wrote:

> Does anyone have a source for air variable caps such as needed for antenna  
> tuners (QRP levels)? Looking around here in the Sacramento area proves to  
> be a lost cause.  
>

Surplus Sales of Nebraska, (800) 244-4567, has a large selection  
of variable capacitors of just about every size, style, voltage, etc.  
that you could ask for.

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Circuit Design for the  
RF Impaired

Chris Trask / N7ZWY  
Principal Engineer  
ATG Design Services  
P.O. Box 25240  
Tempe, Arizona 85285-5240

Technical Editor,  
QRP Quarterly  
QRP ARCI 9464

Email: ctrask@primenet.com  
<http://www.primenet.com/~ctrask>

Graphics by Loek Frederiks

-----  
Date: Fri, 15 May 1998 15:43:08 +0000  
From: Ed Loranger <we6w@qsl.net>  
To: w\_hill@ns.net

Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [10933] Re: Air Variable Caps  
Message-ID: <355C628C.12F8@qsl.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hi Ward, I came up empty at HSC and Techamerical on-line catalogues.

HSC: <http://www.halted.com>  
TA : <http://www.techamerica.com>

Too bad. I traded all of my smaller 'ant-tuner-caps' when  
I got my bug. Just some QRO style now.

I'll keep a lookout for you and if I find any I'll send them  
to you.

OH! If you have the 1979 ARRL Handbook, I think it is  
page 579 that has an interesting antenna tuner using  
homemade coils and ONE homemade capacitor. This link-coupled  
tuner turns both links on one shaft.

Neat, tunes with one knob, and covers any single band. Reported  
as highly efficient.

We'll see. I am making one soon.  
Best of luck.  
Ed Loranger

Ward Hill wrote:

>  
> Does anyone have a source for air variable caps such as needed for antenna  
> tuners (QRP levels)? Looking around here in the Sacramento area proves to  
> be a lost cause.  
>  
> 72,  
>  
> Ward Hill, WA6FUH  
> Engineer at KQVR, Channel 13 (CBS), Sacramento, CA  
> <http://www.kovr.com/index.htm>  
> "Where excuses stop, achievements begin"  
> Life Member ARRL NorCal #2660 10-10 #27139 QRP-L #1117 AK/QRP #249  
> All QRP, All home built/home brew equipment  
> w\_hill@ns.net  
> WA6FUH@KM6PX.#NCA.CA.USA.NOAM

--

72, Ed, WE6W/qrp CW ONLY; Proud Member: QRP-L/ARCI/Norcal/ARS/AR  
<http://www.qsl.net/we6w> (Enjoying Ham Radio every day.)

-----  
Date: 15 May 1998 11:58:19 -0400  
From: Glen Leinweber <leinwebe@mcmail.CIS.McMaster.CA>  
To: qrp-l;;  
Subject: [10934] more strange propagation  
Message-ID: <1998May15.115819-0400@[130.113.234.7]>

ionospherically-challenged gang,  
Was monitoring weather satellites yesterday (yes, they're QRP)  
at 137.50 MHz.  
Regular morning north-to-south pass contained more-than-usual noise.  
But then 1/2 hour later (like 50 degrees BELOW the horizon),  
back it comes with about a minute of reasonably good signal.  
Or have I missed a launch of a new bird?

That 'ol ionosphere seems to be showing a lotta new trick  
these days.

And kudos to Paul Harden for explaining 'em in real-time.  
Glen VE3DNL leinwebe@mcmaster.ca

-----  
Date: Fri, 15 May 1998 11:53:44 -0400  
From: ke4tsa@juno.com (Michael F Danchi)  
To: qrp-l@Lehigh.EDU  
Subject: [10935] QRP programs for the HP48GX?  
Message-ID: <19980515.115346.3606.1.KE4TSA@juno.com>

Does anyone know were I can get some QRP design related programs for and  
HP48GX graphing calculator?

Thanks in advance!

Michael Danchi, KE4TSA

-----  
You don't need to buy Internet access to use free Internet e-mail.  
Get completely free e-mail from Juno at <http://www.juno.com>  
Or call Juno at (800) 654-JUNO [654-5866]  
-----

Date: Fri, 15 May 1998 09:25:34 -0700  
From: "Michael A. Gipe" <mgipe@reliablemeters.com>  
To: <mgipe@reliablemeters.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [10936] Re: Air Variable Caps  
Message-ID: <0c5c01bd801e\$16e3e450\$309f5ecf@double\_trouble.reliablemeters.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Also try Dan's Parts. Good caps for QRP use.

-----  
Date: Fri, 15 May 1998 13:11:01 -0400  
From: Zack Lau <zlau@arrl.org>  
To: qrp-1@Lehigh.EDU  
Subject: [10937] Re: OHR-100 Thermal Drift cures?  
Message-ID: <355C7725.10E7@arrl.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I've gotten temperature compensating caps from Mendelson's in Dayton. Some bargain assortments sold by Radio Shack also have them--sometimes you get lucky and they have what you need.--Zack W1VT

-----  
Date: Fri, 15 May 1998 17:13:34 +0000  
From: Ed Loranger <we6w@qsl.net>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [10938] Lattin 5 Band Antenna  
Message-ID: <355C77BE.6901@qsl.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

<http://www.homeusers.prestel.co.uk/g3ycc/lattin.htm>

NOTE: Invented by W4JRW who also holds patents on basic principle.

Folks, I have seen lots of antennas. But this one really caught my eye yesterday.

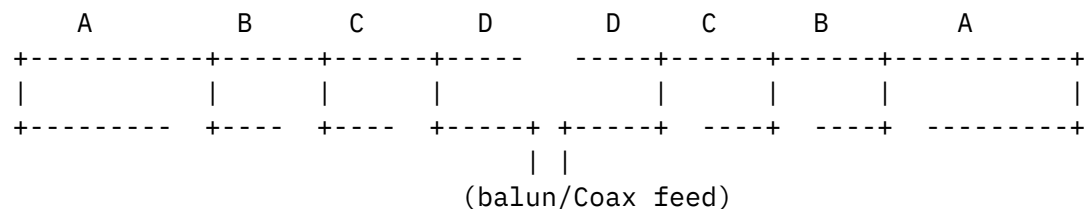
I'm sure the trap tuning is a lot of fun. Wow, what a neat multi-band antenna. 300 Ohm tubular foam-filled 300 Ohm feedline which is snipped in the right places. Fed with 50 Ohm coax. 80 thru 10 meters.

I've seen the multiple wire (5 wire rotor cable) type antennas, but this one uses only 300 Ohm twinlead with strategically placed opens in the bottom wire, and shorts to the top wire at these locations.

For those qrp-l members with email text viewing only, I have added a ascii drawing attempt below. (Be kind)

The Lattin 5 Band Antenna (Designed by W4JRW)

Sections:



Lengths:

A 27' - 5"

B = 13' - 10"

C = 6' - 11"

D = 8' - 0"

NOTES: This is 300 Foam-filled tubular feedline.

Upper/lower wires shown in my ascii drawing above are driven at the Balun/coax feed antenna terminals. The parasitic wires show shorted to the top conductor are trimmed to resonance thereby isolating the rest of the antenna when on higher bands.

For example: The bottom wire at 'C' is trimmed until Resonant in the 10 Meter Band.

My comments:

This sure looks like the antenna will be tough to tune. Maybe I'll build the resonant sections (A thru D) separately and attach after measuring them. Or just feed the input and

experiment with VSWR or Field Strength or Input Impedance measurements. I will try to build this using cheap 300 Ohm TV twinlead for QRP use.

DISCLAIMER: This antenna idea is on the web and in the public Domain. However, W4JRW is claimed to hold a patent on the basic principle.

Neat idea!

-Ed Loranger  
do as an assembled unit. Maybe

--

72, Ed, WE6W/qrp CW ONLY; Proud Member: QRP-L/ARCI/Norcal/ARS/AR  
<http://www.qsl.net/we6w> (Enjoying Ham Radio every day.)

-----  
Date: Fri, 15 May 1998 14:12:01 -0400  
From: Derek Brown <DBrown@RFMD.com>  
To: "'QRP-L'" <qrp-l@Lehigh.EDU>  
Subject: [10939] Source for J-FETs  
Message-ID:  
<c=US%a=\_%p=RF\_Micro\_Devices%l=PACHACUTEC-980515181201Z-25251@proxy1.rfmd.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

I'm looking for sources for J-FETs (i.e. J309 and J310) in small / single piece lots. HELP!

72 de Derek, WF4I  
Greensboro, NC  
dbrown@rfmd.com

-----  
Date: Fri, 15 May 1998 11:31:16 -0700  
From: "Alan Kaul W6RCL" <alan.kaul@worldnet.att.net>  
To: "qrp-l" <qrp-l@Lehigh.EDU>  
Cc: "Jack-wb6wjq hawkins" <jhawk74108@aol.com>  
Subject: [10940] D A Y T O N

Message-ID: <19980515183309.AAA18745@oemcomputer>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

The good news is I'm finally leaving LALA-land for Dayton. The bad news is:

-I will be the LAST PERSON in the entire world to find out about the new Norcal project, because I'll be on an airplane when it is announced, AND knowing how early qrp guys go to bed, there probably won't be anyone awake at the hotel to explain it after I get there.....eta 1am.

-Even worse news is I am not taking a laptop so even when I get to the hotel, I won't be able to check Jerry's efforts on the website.

73/72 de alan

Alan Kaul, W6RCL, LaCanada-Flintridge, CA

<http://home.att.net/~alan.kaul/qrp.html>

[alan.kaul@worldnet.att.net](mailto:alan.kaul@worldnet.att.net)

[w6rcl@amsat.org](mailto:w6rcl@amsat.org)

-----  
Date: Fri, 15 May 1998 13:34:15 +0000  
From: "Bryan Turner" <turnerw@email.uah.edu>  
To: qrp-l@Lehigh.EDU  
Subject: [10941] Batteries - Size vs. Cost  
Message-ID: <9805151833.AA27057@uahis1.uah.edu>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: 7BIT

Many hams have good reasons for selecting small batteries. It seems a little out of whack to power a 1 ounce keyer with a pound of dry cells. And if you're hiking with equipment...

On the other hand, if you don't have a strong reason for using small batteries you might wish to choose something larger (such as C or D cells).

A few good reasons to use large batteries:

- (1) C or D cells will last longer than AA or smaller cells of comparable quality, eliminating the need for a trip to the store and waste batteries that need disposing.
- (2) C and D cells are very easy to find just about anywhere. AA cells aren't that rare, but just try to find AAAA cells that I mentioned in a previous message while you are in the wilderness and there is only one little store within 50 miles. Try finding N cells in an

emergency!

(3) Often tiny cells cost as much, if not more, than their big brothers. I love Duracell AA cells, but the much cheaper store brand C or D cells still have more power.

Almost 15 years ago I bought a Sony portable shortwave receiver. The radio ran on 4 AA cells, but was a notorious battery hog. To eliminate some complaints about having to continuously change batteries, Sony included a box that plugged into the external power socket that held four C cells. I could see building a QRP transceiver with internal AA cells, but a similar box to externally hold large cells for the long trips.

Another battery question is whether to buy the good batteries or the cheapos. Several years back, Radio Netherlands conducted a survey. Their conclusion was that the expensive batteries last longer, but the cheap batteries cost less per Amp hour. They recommended the expensive batteries for higher current devices and situations where it is a pain to change batteries frequently. Your mileage may vary. One benefit of expensive batteries is that they generally (not always) leak less.

And before the smaller is better crowd heats up their flame throwers, I want to say that my two QRP transceivers currently under construction use internal AA cells in one, and a single 9v battery in the other. As the old saying goes, use the right tool for the job.

73 Bryan W8LN

-----  
Date: Fri, 15 May 1998 11:32:27 -0700  
From: "Alan Kaul W6RCL" <alan.kaul@worldnet.att.net>  
To: <qrp-l@Lehigh.EDU>  
Subject: [10942] Fw: D A Y T O N  
Message-ID: <19980515183420.AAA20874@oemcomputer>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

> From: Alan Kaul W6RCL <alan.kaul@worldnet.att.net>  
> To: qrp-l <qrp-l@lehigh.edu>  
> Cc: Jack-wb6wjg hawkins <jhawk74108@aol.com>



> Subject: D A Y T O N  
> Date: Friday, May 15, 1998 11:31 AM  
>  
> The good news is I'm finally leaving LALA-land for Dayton. The bad news  
> is:  
> -I will be the LAST PERSON in the entire world to find out about the  
new  
> Norcal project, because I'll be on an airplane when it is announced, AND  
> knowing how early qrp guys go to bed, there probably won't be anyone  
awake  
> at the hotel to explain it after I get there.....eta 1am.  
> -Even worse news is I am not taking a laptop so even when I get to the  
> hotel, I won't be able to check Jerry's efforts on the website.  
> 73/72 de alan  
> Alan Kaul, W6RCL, LaCanada-Flintridge, CA  
> <http://home.att.net/~alan.kaul/qrp.html>  
> [alan.kaul@worldnet.att.net](mailto:alan.kaul@worldnet.att.net)  
> [w6rcl@amsat.org](mailto:w6rcl@amsat.org)

-----  
Date: Fri, 15 May 1998 12:11:56 -0700  
From: Bill Jones <[kd7s@psnw.com](mailto:kd7s@psnw.com)>  
To: [qrp-1@Lehigh.EDU](mailto:qrp-1@Lehigh.EDU)  
Subject: [10943] Re: D A Y T O N  
Message-ID: <355C937C.8726C053@psnw.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Alan,

Okay, here's the deal. I'll tell you what the new NorCal kit is in exchange for  
your ticket  
to Dayton. Okay?

Alan Kaul W6RCL wrote:

> The good news is I'm finally leaving LALA-land for Dayton. The bad news  
> is:  
> -I will be the LAST PERSON in the entire world to find out about  
the new  
> Norcal project,

=====  
Bill Jones - KD7S <><  
Sanger, California

<http://www.psnw.com/~kd7s>  
=====

-----  
Date: Fri, 15 May 1998 13:17:14 -0700  
From: "Michael A. Gipe" <mgipe@reliablemeters.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [10944] Re: D A Y T O N  
Message-ID: <0cd901bd803e\$73bd85d0\$309f5ecf@double\_trouble.reliablemeters.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Aw heck, I'll tell you for cash \$.

Mike K1MG

>Alan,  
>  
>Okay, here's the deal. I'll tell you what the new NorCal kit is in  
exchange for your ticket  
>to Dayton. Okay?  
Bill Jones

-----  
Date: Fri, 15 May 98 16:09:14 EDT  
From: "Bob Barry" <rbarry@VNET.IBM.COM>  
To: qrp-1@Lehigh.EDU  
Subject: [10945] Re: Air Variable Caps  
Message-ID: <199805152021.QAA33420@nss4.cc.Lehigh.EDU>

I found these caps from a qrp-1 posting earlier this year.  
The caps are the dual bearing type similar to those used in the NorCal  
St. Louis Tuner except they are 1 section, 365 pF...I have no connection  
with them--just a satisfied customer.

72 for now,  
Bob WB2CWA Vermont

\*\*\*\*\*

The Xtal Set Society has them--new manufacture--check their web page at

<http://www.midnightscience.com/>

1-800 927-1771                Rebecca

The Xtal Set Society  
PO Box 3026  
St. Louis, MO 63130

[xtalset@midnightscience.com](mailto:xtalset@midnightscience.com)

> 365pf variable capacitors  
> New! As the surplus for 365 pf caps has dried up, these little beauties  
> are getting harder  
> and harder to find. Not anymore! The Society now has a plentiful supply;  
> we had them manufactured. We also now  
> have AM and shortwave crystal radio kits, 2,000 ohm headsets and crystal  
> earplugs.  
>  
> New 365pf air variable capacitor, \$ 10.95  
>  
> (please add \$3.50 shipping if your order includes a kit)  
>  
> How to Order...  
>  
> You may send your order to the Society on-line by filling in the on-line  
> form below. If you prefer, you may order by  
> e-mail, regular mail, FAX, or by calling 1-800 927-1771. We accept checks,  
> money orders, and VISA & MasterCard.  
> If you have a printer, you can print this page to make ordering easier.

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Date: Fri, 15 May 1998 15:33:59 -0500

From: nilsbull@juno.com (Nils R Young)  
To: QRP-L@Lehigh.EDU  
Subject: [10946] Another of them Hamvention Reports  
Message-ID: <19980515.153409.10366.3.nilsbull@juno.com>

Amigos,

Well, the weather is good. Hot, clear sky, lots of sun. Inside it's hot, stuffy and the CO2 level is about shoulder high. Everyone was sweating & staring at stuff. The guys from "Transistor Sister" jewelry are in a new spot. The QRP corner is in the same spot. My son, Ian, found me in the flea market and there was a guy selling tins about 7x9x2 in the 2300 range of spaces. Two tins for three bucks. And the guy from Germany with the twist & lock 10m fiberglass poles was there. He didn't expect to sell as many as he has in the first day. So if you get one, you're lucky. Very solid looking stuff. If I were into putting up wires on fiberglass poles & sittin' on the beach, I'd have bought one. But . . .

The S&S Engineering kit was on display. Dick was taking suggestions on the front panel design. He and Kathy were tolerating the crowds and CO2 levels pretty well. I got the impression that they were still working out the details and would have the kit available before summer's end.

Same with Wayne & Eric and the K2 kits, which were on display. Man, a lot of design work went into the front panel & box stuffing alone. I was impressed.

SGC was there. Same stuff you've seen in the pictures on the web, pretty much. Had the backpack radio from hell on display. I didn't lift it, but with battery & accessories, I'd venture it's gotta be over 10 lbs easy. Serious storm trooper/dissidents in the mountain pass kind of deal, that.

And Doug told me to hold onto my check book until after the NorCal announcement tonight.

I'm gonna take a nap (which usually means about 16 fits of sleep paralysis, a couple alien invasions [sleep agnosia] and one or two phone calls) and then do the banquet deal.

Ah, the holiness of this pilgrimage, brethren & sistern! May the blessings of decent weather and a lowering of the CO2 levels in the arenas fall upon you like rubber chickens!

Yeeeehah! . . . and 73

Nils

-----  
-----

Nils R. Bull Young  
La Estancia de los Guajolotes Sonrientes :: The Grinnin' Turkey Ranch  
WB8IJN &c :: The Tagalong Press :: email to: nilsbull@juno.com  
<http://www.geocities.com/Athens/Olympus/9172>

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Or call Juno at (800) 654-JUNO [654-5866]

---

Date: Fri, 15 May 1998 14:14:59 -0700 (PDT)  
From: David J Adams <adamsclan@netgate.net>  
To: mgipe@reliablemeters.com, qrp-1@Lehigh.EDU  
Subject: [10947] Re: Air Variable Caps  
Message-ID: <199805152114.0AA14581@u1.netgate.net>

Mike,

Can you bring a counter kit to the pizza fest this evening  
and I will buy it from you. As opposed to you just  
bringing it and me staring at the yellow envelope. It's  
camping season and I need to make the explorer a bit more  
sulf (or self as they say in english) contained.

dave

---

Date: Fri, 15 May 1998 14:14:07 PDT  
From: "laura halliday" <marsgal42@hotmail.com>  
To: qrp-1@Lehigh.EDU  
Subject: [10948] Re: 74C04 OR 74HC04 SMT available ???  
Message-ID: <19980515211407.13553.qmail@hotmail.com>  
Content-Type: text/plain

Patrick M Kvitkauskas (pmk@juno.com) wrote:

> Does anyone know if there are some old CMOS numbers that  
> are available in surface mount ??  
>  
> i am looking for a CMOS hex inverter. Have had good luck  
> with the 74C04 or is there a cross reference for it as well ???

74HC04 is widely available in surface mount, as is 74AC04,

and other newer, even yummiier variants. Any distributor worth dealing with carries them: they are not exotic components.

Laura Halliday VE7LDH "Laisse le vent tout emporter..."  
Grid: CN88hk IOTA: NA036 - Foly/Viennet

-----  
Get Your Private, Free Email at <http://www.hotmail.com>

-----  
Date: Fri, 15 May 1998 17:39:32 EDT  
From: k7sz@juno.com (Rick Arland)  
To: mgipe@reliablemeters.com  
Cc: qrp-l@Lehigh.EDU  
Subject: [10949] Re: D A Y T O N  
Message-ID: <19980516.214721.16735.3.k7sz@juno.com>

On Fri, 15 May 1998 13:17:14 -0700 "Michael A. Gipe"  
<mgipe@reliablemeters.com> writes:

>>Okay, here's the deal. I'll tell you what the new NorCal kit is in  
>exchange for your ticket to Dayton. Okay?

Do we REALLY care what the new NorCal project is?

73 rich K7SZ

-----  
You don't need to buy Internet access to use free Internet e-mail.  
Get completely free e-mail from Juno at <http://www.juno.com>  
Or call Juno at (800) 654-JUNO [654-5866]

-----  
Date: Fri, 15 May 1998 15:55:59 -0600  
From: "Rattray, Bruce" <Rattray@siast.sk.ca>  
To: "'QRP-L'" <qrp-l@Lehigh.EDU>  
Subject: [10950] ignore - testing -  
Message-ID: <ABB04875E11AD01191A40000F83092BE8325DD@STONE>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="iso-8859-1"  
Content-Transfer-Encoding: 7BIT

Testing sudden bounce back from qrp-l - ve5rc -

-----  
Date: Fri, 15 May 1998 22:44:02 GMT  
From: mwattcpa@earthlink.net (Marty Watt)  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [10951] Re: Super CMOS Keyer III?  
Message-ID: <355dc4ce.182580356@mail.earthlink.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: quoted-printable

On Wed, 13 May 1998 19:26:07 -0400, TERRY MYERS <kq5u@swbell.net> wrote:

>I have just built the main board of my keyer and have now gotten to the  
>power supply. I thought I would use some NiCad batteries (I have a lot  
>of 1/2 AA cell batteries salvaged from cell phones). Four of these will  
>give 4.8 volts, but I was curious about the current requirement of the  
>keyer. (The docs say nothing about this.) Can some of you respond with  
>what you are using and the results you are getting. (battery life?)  
>  
>Has anyone used a LM7805 or similar regulator + batteries with a 12v  
>supply coming from the QRP rig's battery?  
>  
>I do want to use this keyer in the field and am looking for ideas.

Well, I got the CMOS III (logikey K-3) today, and I must admit I'm disappointed. I would have preferred a kit, but since Idiom Press cannot accept credit cards, I had to order an assembled version from a dealer.

Unfortunately, I thought I was getting an identical keyer. =  
Operationally,  
perhaps it is. I don't know yet, because the assembled version makes NO  
provision for internal battery power. In fact, it runs on 12V (unlike =  
the  
CMOS II kit I built which runs on 4.5). There is an outboard power jack,=  
and  
a regulator to take it to 5V. The power jack has a 2.5mm inside =  
diameter, the  
OD isn't specified (but none I have on hand will fit).

It's frustrating to not know this stuff, and because they have no =  
information  
on the web, nor a phone number, there was no way of knowing. Just a PO =  
Box  
for orders.

— —

```
=46ranklin, Tennessee          http://home.earthlink.net/~mwattcpa  =
=20
NorCal #2031 -- ARCI #7514 -- ORP-L #0953 -- AK/ORP #098 -- Grid EM65
```

On Fri, 15 May 1998, Bryan Turner wrote:

For those of you interested in this subject, there is going to be an outstanding two-part series on gel-cells in QRP Quarterly this year, starting with the next issue.

```

      /-----\
      /   What's all this   \
      / extinct stuff, anyhow? /
      \-----'
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oo\
( __ )\
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Circuit Design for the  
RF Impaired

Chris Trask / N7ZWY  
Principal Engineer  
ATG Design Services  
P.O. Box 25240  
Tempe, Arizona 85285-5240

Technical Editor,  
QRP Quarterly  
ORP ARCI 9464



| | | | \ '.  
c\_\_; c\_\_; '-..'>.\_

Email: [ctrask@primenet.com](mailto:ctrask@primenet.com)  
<http://www.primenet.com/~ctrask>

Graphics by Loek Frederiks

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End of QRP-L Digest 1092

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